

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-272756  
 (43)Date of publication of application : 20.10.1995

(51)Int.Cl. H01M 10/40

(21)Application number : 06-245987 (71)Applicant : SONY CORP  
 (22)Date of filing : 12.10.1994 (72)Inventor : SUGANO NAOYUKI

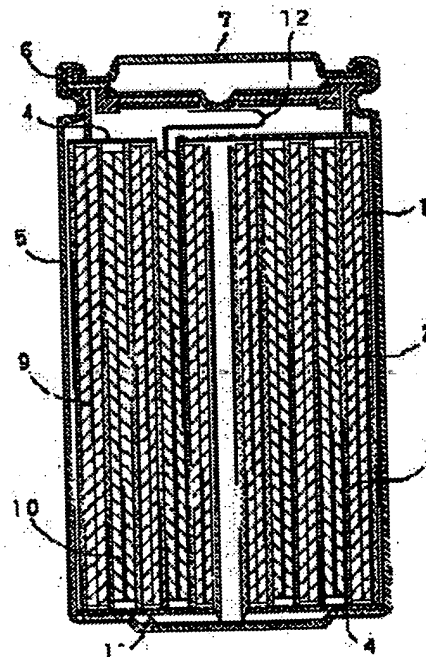
(30)Priority  
 Priority number : 06 14561 Priority date : 08.02.1994 Priority country : JP

## (54) NONAQUEOUS ELECTROLYTIC SECONDARY BATTERY

### (57)Abstract:

**PURPOSE:** To improve battery performance even under a heavy load condition or even under a low temperature condition by forming a nonaqueous solvent of mixed solvent of annular carbonate, dialkylester compound, etc., so as to improve a storage characteristic and capacity holding factor under a high temperature condition.

**CONSTITUTION:** A nonaqueous electrolytic secondary battery is constituted of a positive electrode 2 formed of a combined compound of lithium and transition metal, negative electrode 1 formed of carbon material capable of doping/ dedoping lithium and a nonaqueous electrolyte formed by melting an electrolyte in a nonaqueous solvent. A dialkylester compound of constituting a nonaqueous solvent with annular carbonate which is a high dielectric solvent, annular carbonate alkyl substitute annular ester compound and an alkylester compound are added for improving conductivity of the nonaqueous electrolyte. By using these solvents as a mixed solvent with annular carbonate and combination or the like of dialkylester compound and chain carbonate battery performance can be improved.



### LEGAL STATUS

[Date of request for examination] 21.02.2001  
 [Date of sending the examiner's decision of rejection]  
 [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]  
 [Date of final disposal for application]  
 [Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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